# PUTTING TRANSPORTATION DATA IN ITS PLACE: A GIS STRATEGY

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8/19/2015



#### Overview

- Linear Referencing
- Putting GIS Data to work
- Making GIS Data Accessible
- Managing GIS Data
- **Future Plans**



#### Objectives

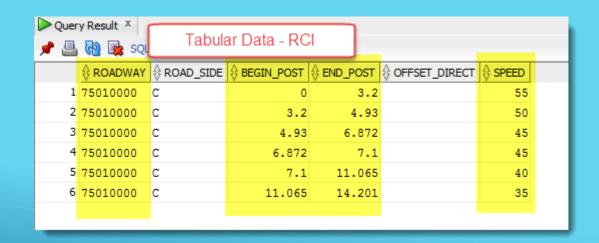
- Acquainted & re-acquanited
- TranStat GIS data offerings
- ►GIS applications
- Spatial data services
- Cost savings
- **Lessons** learned



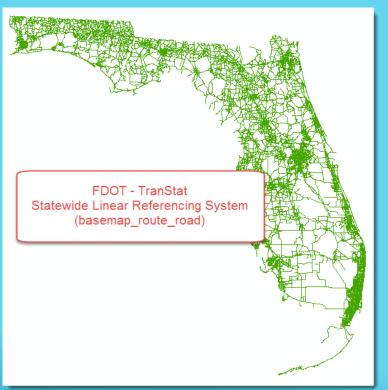
- Wealth of agency data (RCI, TCI)
- Consistent operational logic (ID, milepoints)
- GIS offers a perfect compliment
- Goals: Spatial data, quality control



Linear referencing puts data in its place:

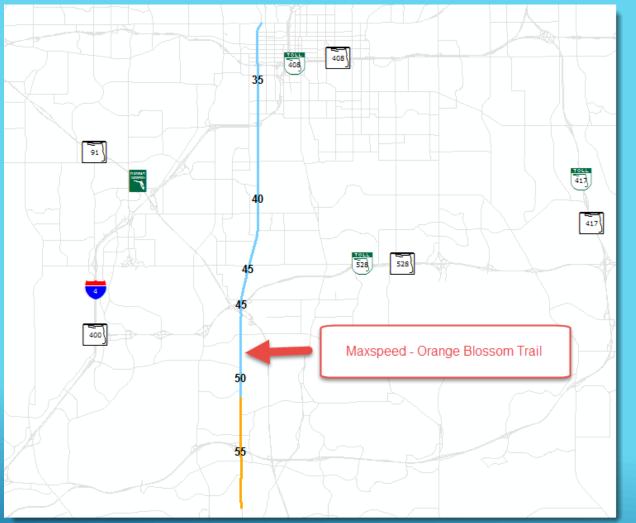




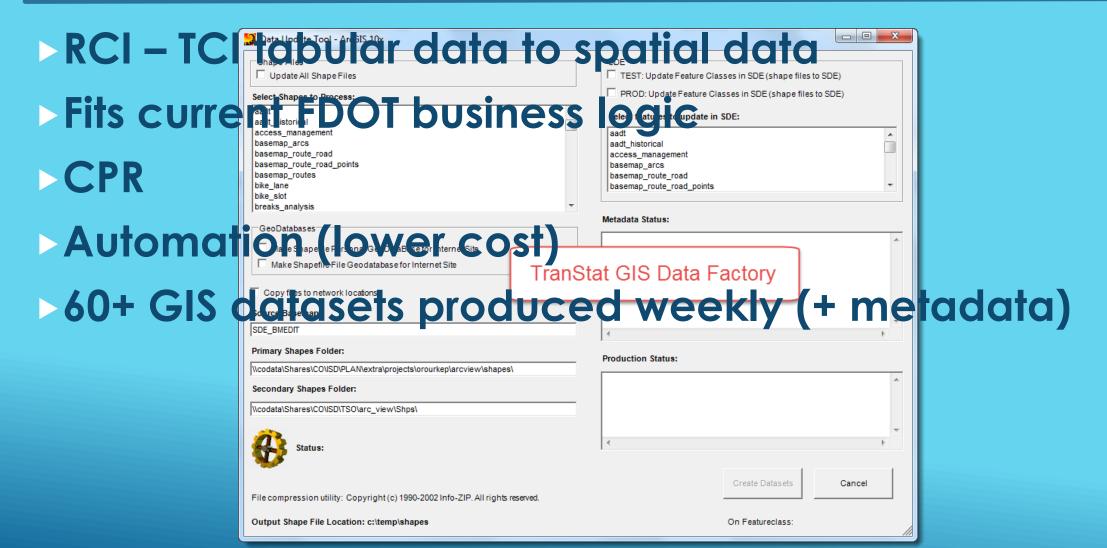




Instant GIS dataset!







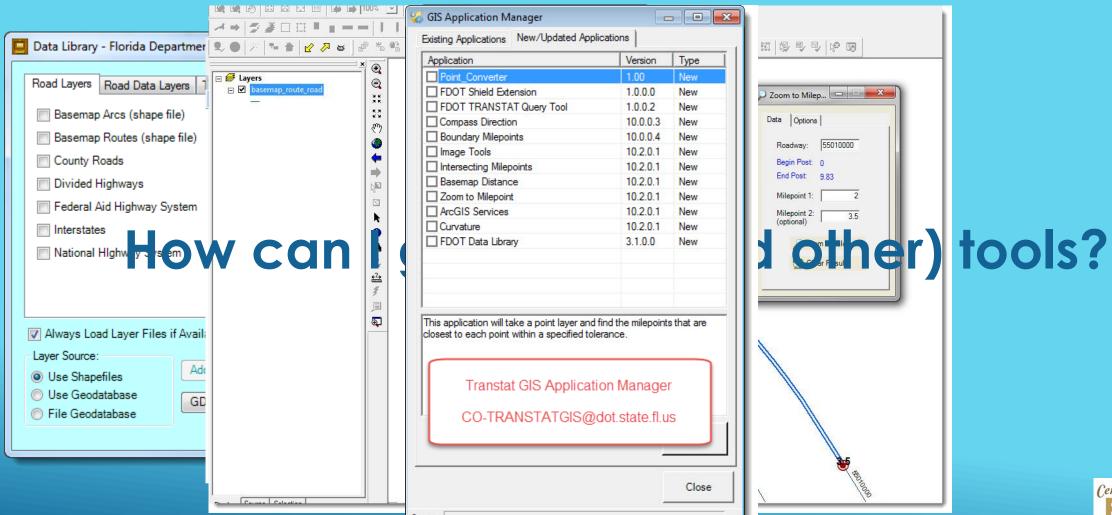


## Putting GIS Data to Work

- Making desktop GIS user-friendly
- Make GIS part of doing business at FDOT
- Increase consistency
- **Lower costs**
- **Extend GIS functionality**
- Tools and extensions



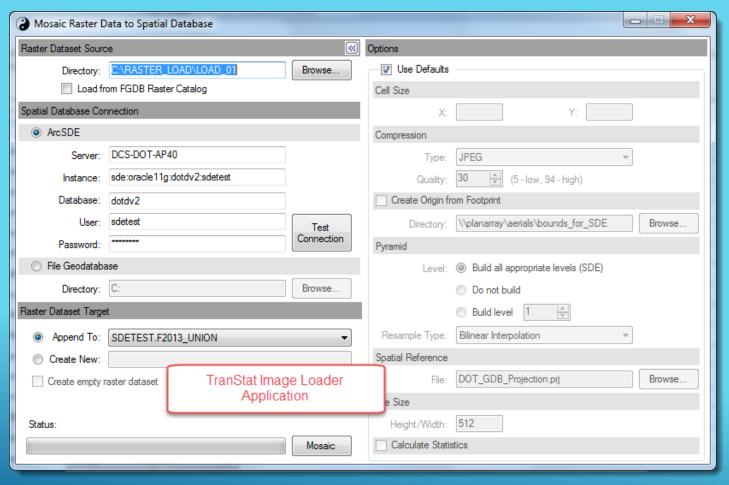
#### Putting GIS Data to Work





#### Putting GIS Data to Work

>Applications...



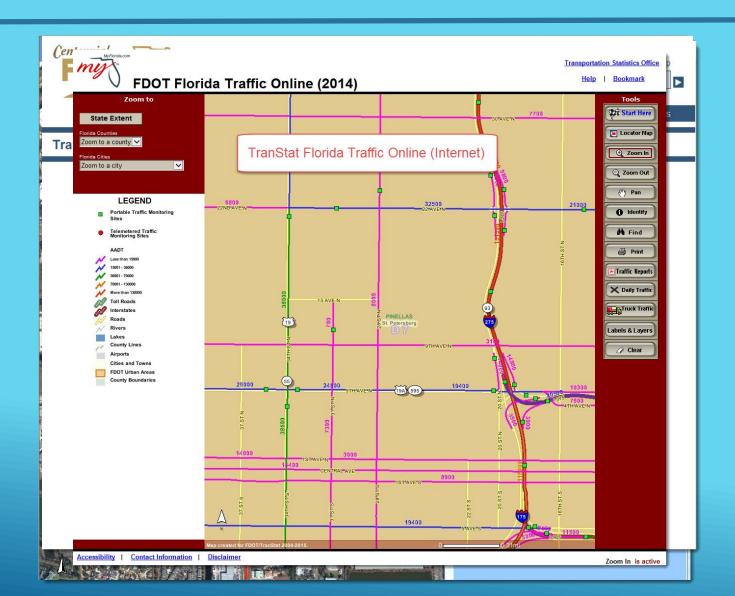


#### Making GIS Data Accessible

- Easier access for public, private sector
- Breaking out of the silo
- Share the wealth (imagery)
- Reach non Desktop GIS Users (web)
- Keep data up to date
- Metadata

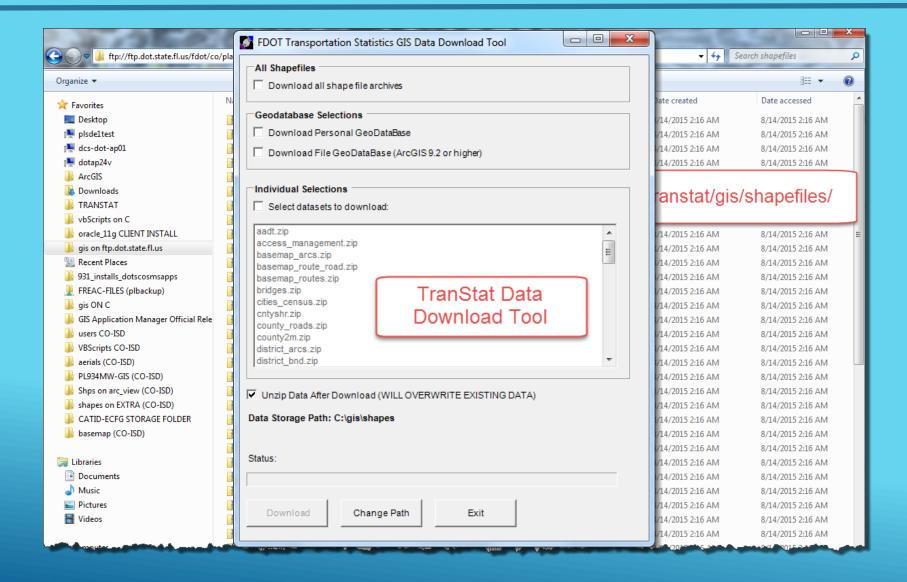


#### Making GIS Data Accessible – Web





#### Making GIS Data Accessible – FTP





#### Making GIS Data Accessible – Spatial Database

- Intranet TranStat
- Internet OIS-BSSO (subset/restricted)
- TranStat maintains test/production (2) instances
- > ArcSDE-Oracle
- Refreshed weekly
- Access across agency contact TranStat
- Data on-demand, new datasets

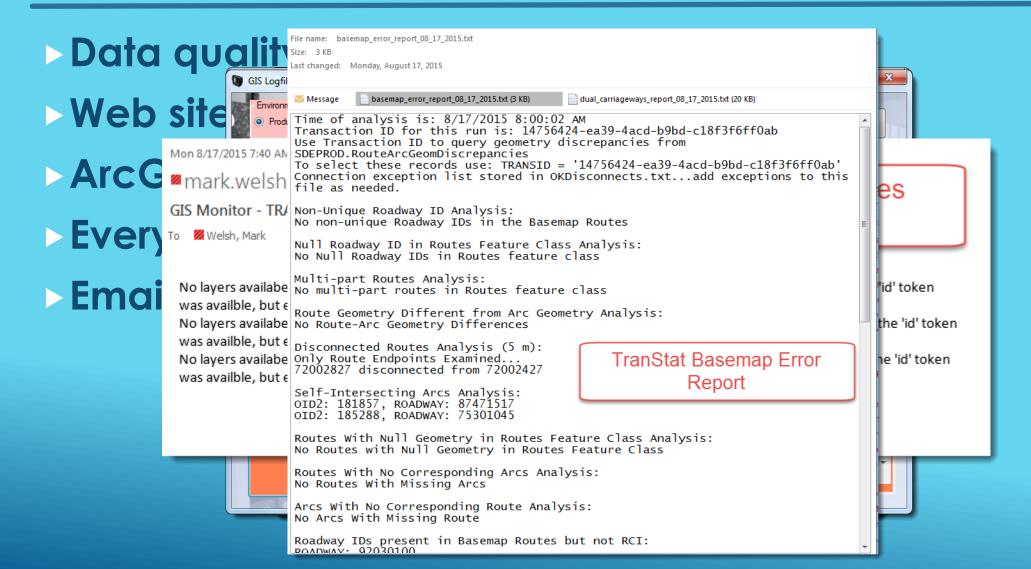


#### Managing GIS Data

- Availability reliability
- Intranet web servers, application servers, databases
- Limited personnel resources
- >AST admin access
- **Lower costs**
- Automation (30+)
- Monitoring and remediation



## Managing GIS Data





#### **Future Plans**

- ► ArcIMS → ArcGIS Server/Framework
- >AST Migration (database/servers)
- ArcGIS 10.2.2 (server side)
- Consolidated geodatabases
- > Evaluate open source
- Freight/ITS data offerings
- **ARNOLD**



#### Conclusions

- Adding geography adds value to data
- GIS is central to doing business more effectively
- Doing more with less
- We want to get you the GIS data you need
- We want to share our customizations/ideas

